



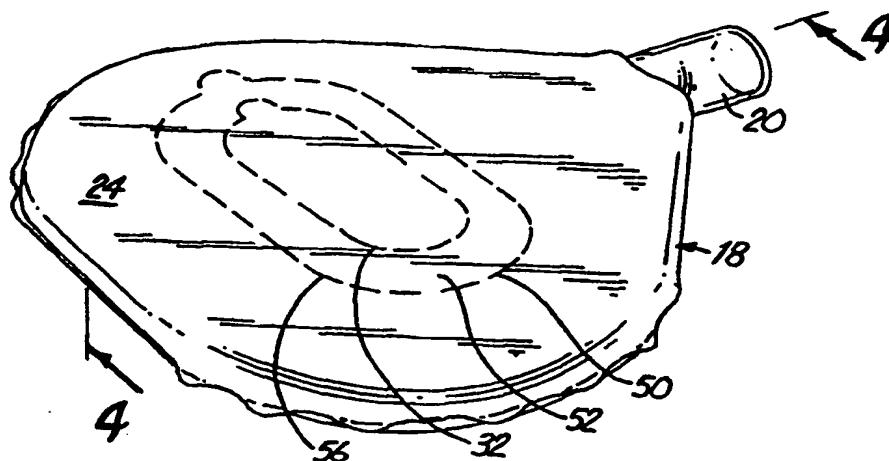
NOV 09 1999

PCTWORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6: A61B 5/00, A61M 1/00		A1	(11) International Publication Number: WO 99/53833
			(43) International Publication Date: 28 October 1999 (28.10.99)
(21) International Application Number: PCT/US99/08207		(74) Agents: BRUHN, David, E. et al.; Dorsey & Whitney LLP, Pillsbury Center South, 220 South Sixth Street, Minneapolis, MN 55402-1498 (US).	
(22) International Filing Date: 15 April 1999 (15.04.99)			
(30) Priority Data: 60/082,125 17 April 1998 (17.04.98) US		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).	
(63) Related by Continuation (CON) or Continuation-in-Part (CIP) to Earlier Application US 60/082,125 (CIP) Filed on 17 April 1998 (17.04.98)		Published With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.	
(71) Applicant (for all designated States except US): JLJ MEDICAL DEVICES, INTERNATIONAL, LLC [US/US]; Suite 212, 6504 Walker Street, St. Louis Park, MN 55426 (US).			
(72) Inventors; and (75) Inventors/Applicants (for US only): SCHULTZ, Leonard, S. [US/US]; 11036 Boone Circle South, Bloomington, MN 55438 (US). DROGUE, Jeffrey, K. [US/US]; 5117 Washburn Avenue South, Minneapolis, MN 55410 (US). GRACIE, Kevin, W. [US/US]; Apartment D-4, 314 East 25th Street, Minneapolis, MN 55404 (US).			

(54) Title: EVACUATOR



(57) Abstract

An improved smoke evacuation system (10), a method for removing gaseous byproducts of surgical procedures, and noxious vapors from chemicals, is provided. The smoke, and vapor evacuation system includes a vacuum head (18) positioned at a surgical site or incorporated into a workstation. The vacuum head includes a plenum (28), a plenum support for preventing the plenum from collapsing when a vacuum or low pressure is established therein, and is adapted to facilitate the use of the system in a variety of surgical or commercial procedures at a variety of surgical sites or commercial workstations.